



Annual Report Form For Individual NPDES Permits For Municipal Separate Storm Sewer Systems (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator (<http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm>). Files larger than 10MB may be placed on the FTP site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading files, email the MS4 coordinator or NPDES Program Administrator to notify them the report is ready for downloading; or by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below.**

Submit the form and attachments to:
 Florida Department of Environmental Protection
 Mail Station 3585
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: Village of Wellington		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input checked="" type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): 10 / 2018 through 9 / 2019		
F.	Name of the Responsible Authority: Thomas J. Lundeen, P.E.		
	Title: Village Engineer		
	Mailing Address: 12300 Forest Hill Boulevard		
	City: Wellington	Zip Code: 33414	County: Palm Beach
	Telephone Number: 561-753-2454		Fax Number: 561-791-4045
	E-mail Address: tlundeen@wellingtonfl.gov		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above):		
	Title:		
	Department:		
	Mailing Address:		
	City:	Zip Code:	County:
	Telephone Number:		Fax Number:
	E-mail Address:		

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable in Year 1)

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): (Does this number include non-major outfalls? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	<p>Provide a brief statement as to the status of water quality monitoring plan implementation. Status may include sampling frequency changes, monitoring location changes, or sampling waiver conditions. <i>DEP Note: If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.</i></p> <p>Name and date of the approved plan: Approval of Group Monitoring Plan is September 8, 2016 with issuance of the Cycle 4 Permit. Status: Wellington Assessment Program (Surface Water Quality Report) was submitted on May 11, 2017 and approved by DEP on July 7, 2017. A copy of the 2019 Surface Water Quality Report is attached.</p>
B.	<p>Provide a brief discussion of the monitoring and loading results to date which includes a summary of the water quality monitoring data and / or stormwater pollutant loading changes from the reporting year. <i>DEP Note: Results must be specific to the permittee's SWMP.</i></p> <p>Monitoring results indicated that for the last 13 years Wellington has been meeting its total phosphorous goal of 50 ppb. Last year Total Phosphorous averaged 43.6 ppb. Best Management Practices documented removal of 116 metric tons of phosphorous captured and or removed during this reporting period.</p>
C.	<p>Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i></p> <p>A copy of the 2019 Surface Water Quality Report and Pollutant Loading Report is attached.</p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$4,441,309.
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$9,706,008
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>Projects are in progress and funds are and continue to be carried forward to the subsequent year.</p>

SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part V.B.3	2019 Surface Water Quality Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.	Part III.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	Pollutant Loading Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none"> The monitoring plan (with revisions, if applicable). If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate. 	Part V.B.3 Part V.A.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

DO NOT SUBMIT ANY OTHER MATERIALS

(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C.:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Authority (type or print): Thomas J. Lundeen

Title: Village Engineer

Signature:  Date: 12/22/2019

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.					C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation								
<p>Report the current known inventory.</p> <p>Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.</p> <p><i>Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.</i></p>									
Type of Structure		Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained			
Exfiltration trench / French drains (lf)		1776	4	100	179	100	Exfiltration Insp Form (3), Navilline Work Order (1), Trash Cart Report Log (Maint.)	VOW Surface Water Mgmt./SWM & Roads Divisions	We have 3 exfiltration areas inspected generally 72 hrs after a significant rainfall-approx. 2-3 times annually & every three years, per SOP
Grass treatment swales (miles)		36.92	150.96	100	3.28	9	Swale Insp. & Maint. Log (3.28 miles) and Swale Inspection Form (4x36.92 miles)	VOW Surface Water Mgmt.	Swale Retrofit Program is ongoing & they continue to be inspected by driving thru the Village and observing if they are retaining water, generally 72 hrs. after a significant

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	Dry detention systems								rainfall. A total of 100% of swales have been inspected	
		17	51	100	390	100	Dry Detention Insp Form, Verification Sheets & Mowing Summary (390)	VOW Surface Water Mgmt	Inspection by Terry Narrow/Hank Odell (SWM)	
	Wet detention systems	6	60	100	95	100	Maint.=Aquatic Weed Applications (23+19+11), Mowing Summary (Maint) (42) , Insp (12), Sec 24 Mowing Maint (24) & Insp.(24),and Wet Det. Inspection Form (3 ea=18), & Naviline Work Order (1 ea=6)	Surface Water Mgmt.	Sect 24 (Scott Fletcher) , Village Park (3), Lake Wellington, Lake Greenview	
	Canal Sediment Sumps	7	7	100	0	100	Work Orders	Surface Water Maint.	SWM Work orders – Terry Narrow, Sumps were inspected and still found to have minimal material.	
	Pump stations	8	505	100	183	100	PS Attendance Logs, PS Gen. Check, 6 Mth. Inspections, Maint. Work Reqs., MSO	Surface Water Mgmt. /Rick Hoffman	Pump stations are inspected and maintained on a regular basis and documented	

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	Major outfalls								Inspections & Release Detection & Insp. Checklist, PS Tank Monitor Insp.		throughout the year.		
						5	268	100	85	100	MSO Annual Insp. Work requests, PS Attendance Logs, CS Debris Check, works requests, PS Generator Check work requests, PS Maint. work requests Release Detection & Insp. Checklist, PS Tank Monitor Insp.	Surface Water Mgmt. /Rick Hoffman	MSO are inspected and maintained on a regular basis and documented throughout the year
	Weirs or other control structures					5	82	100	17	100	6 th Mth CS Insp. & CS Debris Chks & Maint. Work Requests	Surface Water Mgmt. /Rick Hoffman	Control Structures are inspected at minimum on a semi-annual basis.
	pipes / culverts (miles)					35.41	35.41	100	86	100	Major Canal Crossing/Culver t, NH	Surface Water Mgmt.	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed		Documentation / Record	Entity Performing the Activity	Comments			
	Canals							Infrastructure Storm Drainage Insp. & Maint. Logs & Culvert Choke Point Inspection Form					
						91.4	91.4	100	141.88	100	Aquatic Veg Treatment Application Log (Maint. 137.1 miles), Canal Slope Log (Maint. 2.01 miles), Aquatic Weed Harvester/Liebh err Maint. Log (2.77 miles) & Natural Canal Inspection Form	Surface Water	Terry Narrow 100% of the canals have been inspected.
						2,173	103,895	100	71,149	100	Storm Drain Inspection & Maint. Records/Log	Roads	Inspections & Maintenance includes, but not limited to: 2 full time employees continually travel VOW roads picking up and removing trash, which includes a visual inspection & removing any and all trash, debris and/or obstructions from inlets/catch basins/grates along their
Inlets / catch basins / grates													

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									routes. Fluctuation in totals between FY include but are not limited to weather conditions, increased traffic, etc.	
	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.	<input type="checkbox"/>							All Met	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: : Inspections continue to help with the identification of a potential issue/problem that may contribute to an impending failure of the structure. Maintenance of the system contributes to the reduction of pollutant loadings being discharged into the water.				
	Limitations: None				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	83	NPDES Inspection & Maintenance Report 2018- 2019 - New Development and Significant Redevelopment	Engineering	
			Number of significant development projects approved		
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.				
	Year 2 ONLY: Attach the summary report of the review activity		2017-2018 Code and Land Development Regulation	Mock•Roos	
Year 4 ONLY: Attach the follow-up report on plan implementation					
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: In order to manage and protect our water resources, we require that redevelopment projects coordinate their projects with the surrounding regulatory entities (i.e., South Florida Water Management District, Army Corps of Engineers, Lake Worth Drainage District, Florida Department of Transportation) thus allowing us to upgrade				

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	stormwater systems. Limitations: None SWMP revisions implemented to address limitations: N/A				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected. <i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	562	Trash Report Log/Weekly Reports, Street Sweeping Log/Weekly Reports	Roads	403 = Trash Report 159 = Street Sweeping
	PERMITTEE Litter Control: Estimated amount of area maintained (miles)	179.78	Street Sweeping & Trash Cart Maps	Roads	Street Sweeping Route Total: (weekly and bi-weekly route for a total of 78.40 lane miles per each completed route), Trash Cart Route Total : (weekly and bi-weekly route for a total of 101.38 lane miles per each completed route)
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	2,616.48	Trash Report Log/Reports, Street Sweeping Log/Weekly Reports	Roads	1,046.48 = Trash Report 1,570= Street Sweeping
	OPTIONAL: If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".				
	Adopt-A-Road: Total miles cleaned	33.63	Adopt-A-Road Spreadsheet	Roads	Rose Wallace-PW

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	<p align="center">Adopt-A-Road: Estimated amount of litter collected (bags)</p>	94	Adopt-A-Road Spreadsheet	Roads	Administration Rose Wallace-PW Administration
	<p>Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen and total phosphorus loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in column F.</p>				
	<p align="center">Frequency of street sweeping</p>	159	Street Sweeping Log/Weekly Reports	Roads/PW	
	<p align="center">Total miles swept</p>	7259	Per Street Sweeping Log/Weekly Reports	Roads/PW	
	<p align="center">Estimated quantity of sweeping material collected (cy)</p>	1570	Street Sweeping Log/Weekly Reports	Roads/PW	
	<p align="center">Total phosphorous loadings removed (pounds)</p>	1,299	Street Sweeping Log/Weekly Reports	Roads/PW	DEP Spreadsheet Tool
	<p align="center">Total nitrogen loadings removed (pounds)</p>	2,027	Street Sweeping Log/Weekly Reports	Roads/PW	DEP Spreadsheet Tool
	<p align="center">Estimated quantity of Equestrian Waste collected (cy yards)</p>	302,433	Equestrian Haulers Quarterly Reports/ Equestrian Waste Removal Spreadsheet	Planning & Zoning	Mike Odell/Ryan Harding
	<p align="center">Total phosphorous loadings removed (pounds)</p>	226,825	Equestrian Haulers Quarterly Reports/ Equestrian Waste Removal Spreadsheet	Mike Odell/Ryan Harding Planning & Zoning	FDACS BMP Manual

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	Total nitrogen loadings removed (pounds)	725,840	Equestrian Haulers Quarterly Reports/ Equestrian Waste Removal	Mike Odell/Ryan Harding Planning & Zoning	FDACS BMP Manual	
	Estimated quantity of BMP Material collected (cy yards)	2372.14	Catch Basins (1,046.48 cy), Canal Redredging Log (888.89. cy), NH Infrastructure Insp & Maint Spreadsheet (16.77cy) Performance Measures Spreadsheet for Pump Station Trash racks debris removal (168 cy), Weed Harvester Maint. Log (252 cy)	SWM	Terry Narrow, Hank Odell, Rick Hoffman (Surface Water Mgmt.)	
	Total phosphorous loadings removed (pounds)	2,268	"	SWM	DEP Spreadsheet Tool	
	Total nitrogen loadings removed (pounds)	3,693	"	SWM	DEP Spreadsheet Tool	
	Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.					
		Name of Facility	Number of Inspections			
		Public Works Fleet Maintenance	12	Municipal Maint. Yard Inspection Form	Fleet & Equip Maint	Jay Miller/Superintendent/Fleet Maint.

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The Litter Control Program (street sweeping and roadside trash pick up) continues to help with the reduction of pollutants being discharged. The Swale Retrofit Program also continues to help with the reduction of pollutants being discharged and reduces ponding water on roadways.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None				
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	3	Major Canal Culvert/Crossing Spreadsheet	Surface Water Mgmt.	Terry Narrow/Bill Conerly
	Flood control projects completed that did <u>not</u> include stormwater treatment	0		Surface Water Mgmt.	Terry Narrow/Bill Conerly
	Stormwater retrofit projects planned/under construction	0		Surface Water Mgmt.	Terry Narrow/Bill Conerly
	Stormwater retrofit projects completed	0		Surface Water Mgmt.	Terry Narrow/Bill Conerly
If there were projects that did not include stormwater treatment, provide as an attachment a list of the projects and an explanation for each of why it did not.	<input type="checkbox"/>				
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Wellington continues with their inspection, cleaning, and repairing of pipes/major culverts to identify any major issues that may impede water flow.				
	Limitations: None				
	SWMP revisions implemented to address limitations: No deficiencies were noted.				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	N/A - Wellington does not have any facilities.				
	N/A				
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: N/A				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	5	Copy of Licenses	Public Works	
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	8	Copy of Licenses	Public Works	
	PERSONNEL: Green Industry BMP Program training completed	33	Trained-multiple years- GI Website Certification Listing	Public Works	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	13	Trained-multiple years- GI Website Certification Listing	Public Works	
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	<input type="checkbox"/>			
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program	The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.			

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Brochures/Flyers/Fact sheets distributed	77	BMP Brochure & Save the Swales Brochure	Public Works	Available at PW Admin Front Desk & Village Hall Kiosk: Stormwater and Me: Pesticides, Herbicide & Fertilizer Use and Save The Swales and sent to all participants of the Adopt A Street Program
	Public displays (e.g., kiosks, storyboards, posters, etc.)	2	BMP Posters	Public Works	Displayed: PW Admin Front Desk and Break/Meeting Room
	Radio or television Public Service Announcements (PSAs)	6944	TV Spots	Media Division/IT	David Feliciano 2-PSAs:Storm Water 1 and Storm Water 2, LWDD Protect Swales & Get To Know Your Drainage System
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Continue to ensure all personnel have proper training in the appropriate application and continue to outreach activities and public education.				
	Limitations: None				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	<input type="checkbox"/>			
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Report on the proactive inspection program, including the number of inspections conducted by the permittee, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	143	Proactive Illicit	Engineering &	Jim Kelly

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	<p align="center">Illicit discharges found during a proactive inspection</p> <p align="center">NOV/WL/citation/fines issued for illicit discharges found during proactive inspection</p>		Discharge/Illegal Connection Insp. Form (33), BMP Annual Livestock Waste Storage Structure Insp (110)	Code Enforcement	(Engineering), Cindy Drake/GIS (Code Enforce.)	
		4	Case files	Code Enforcement	Cindy Drake	
		0	Case files	Code Enforcement	Cindy Drake- All 4 cases worked to achieve compliance and no fee or fines were issued	
	<p>Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.</p>					
	<p align="center">Reports of suspected illicit discharges received</p>	4	Sungard Naviline Case History Report (2), Spill Prevention & Reporting Form, Illicit Discharges (1), Connections and Improper Disposal or Dumping Reporting Form (1)	Code Enforcement, Cindy Drake & Public Works		
		4	Sungard Naviline Case History Report (2), Spill Prevention & Reporting Form, Illicit Discharges (1), Connections and Improper Disposal or	Code Enforcement, Cindy Drake & Public Works		
<p align="center">Reactive investigations of reports of suspected illicit discharges etc.</p>						

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A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p style="text-align: center;">Illicit discharges etc. found during reactive investigation</p>		Dumping Reporting Form (1)		
		4	Sungard Naviline Case History Report (2), Illicit Discharges Connections and Improper Disposal or Dumping Reporting Form (2)	Code Enforcement, Cindy Drake & Public Works	Two (2) cases were resolved in the field by Public Works. Other 2 cases worked to compliance and no fee or fines were issued.
	<p style="text-align: center;">NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation</p>	0		Code Enforcement, Cindy Drake	All 4 cases worked to compliance and no fee or fines were issued.
Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Personnel trained	525	PW Safety Mtg Agenda & Sign In Sheet and Training Acknowledgeme nt forms	Public Works	Various Dates, personnel trained on the following: Video=IDDE-A Grate Concern- Illicit Discharge Detection & Elimination (91), Video= Rain Check – Stormwater Pollution Prevention for MS4s (89), Video=Spills and Skills-Non Emergency HazMat Spill Response (90), SPCC Controlling Oil (90), Video= Ground Control- Stormwater Pollution Prevention for Construction Sites (81), Video= Storm Watch: Municipal Stormwater Pollution Prevention (84)
	Contractors trained	17	Distributed Flyer: Stormwater and Me! Reporting Illegal Dumping and Illicit	Public Works and Planning & Zoning	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
			Discharges & Spills & Skills Flyer to 17 contractors (annual meeting sign in sheet and spreadsheet)		
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	Hazardous and non-hazardous material spills responded to	0	N/A		
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	525	PW Safety Mtg Agenda & Sign In Sheet and Training Acknowledgement forms	Public Works	Various Dates, personnel trained on the following: Video=IDDE-A Grate Concern-Illicit Discharge Detection & Elimination (91), Video= Rain Check – Stormwater Pollution Prevention for MS4s (89), Video=Spills and Skills-Non Emergency HazMat Spill Response (90), SPCC Controlling Oil (90), Video= Ground Control-Stormwater Pollution Prevention for

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p style="text-align: center;">Contractors trained</p>	17	Distributed Flyer: Stormwater and Me! Reporting Illegal Dumping and Illicit Discharges & Spills & Skills Flyer to 17 contractors (annual meeting sign in sheet and spreadsheet)	Public Works and Planning & Zoning	Construction Sites (81), Video= Storm Watch: Municipal Stormwater Pollution Prevention (84)
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	<p style="text-align: center;">Public Education and Outreach Program</p> <p style="text-align: center;">Brochures/Flyers/Fact sheets distributed</p>	4,277	The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information. Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges and Pesticide, Herbicide & Fertilizer Use	Public Works	Available at PW Admin Front Desk & Village Hall Kiosk: Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges & sent to all Adopt A Street

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
					Participants (38), Each year the Village of Wellington participates in a seedling give-away to local school children as part of their Arbor Day activities, which includes a packet of various tree related information and this year we included two brochures (Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges and Pesticide, Herbicide & Fertilizer Use) in the packet of information that went home with each child receiving a tree seedling(4,185) , Arbor Day Event- 4/27/19 27 Stormwater and Me: Reporting Illegal Dumping and 27 Illicit Discharges and Pesticide,

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p style="text-align: center;">Public displays (e.g., kiosks, storyboards, posters, etc.)</p> <p style="text-align: center;">Radio or television Public Service Announcements (PSAs)</p>				Herbicide & Fertilizer Use were distributed to attendees that stopped by the VOW & Tree Board tent.
		2	BMP Posters	Public Works	Displayed: PW Admin Front Desk and Break/Meeting Room
		5824	TV Spots	Media Division/IT	David Feliciano 2-PSAs: Storm Water 1 and Storm Water 2
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	<p style="text-align: center;">Public Education and Outreach Program</p> <p style="text-align: center;">Brochures/Flyers/Fact sheets distributed</p>	4,277	Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges and Pesticide, Herbicide & Fertilizer Use	Public Works	The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information. Available at PW Admin Front Desk & Village Hall Kiosk: Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges & sent to all Adopt A Street Participants (38), Each year the Village of Wellington participates in a seedling give-a-

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					way to local school children as part of their Arbor Day activities, which includes a packet of various tree related information and this year we included two brochures (Stormwater and Me: Reporting Illegal Dumping and Illicit Discharges and Pesticide, Herbicide & Fertilizer Use) in the packet of information that went home with each child receiving a tree seedling(4,185) , Arbor Day Event- 4/27/19 27 Stormwater and Me: Reporting Illegal Dumping and 27 Illicit Discharges and Pesticide, Herbicide & Fertilizer Use were distributed to attendees that stopped by the VOW &

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments																				
	<p align="center">Public displays (e.g., kiosks, storyboards, posters, etc.)</p> <p align="center">Radio or television Public Service Announcements (PSAs)</p>	<p align="center">2</p> <p align="center">5824</p>	<p align="center">BMP Posters</p> <p align="center">TV Spots</p>	<p align="center">Public Works</p> <p align="center">Media Division/IT</p>	<p>Tree Board tent.</p> <p>Displayed: PW Admin Front Desk and Break/Meeting Room</p> <p>David Feliciano 2-PSAs:Storm Water 1 and Storm Water 2</p>																				
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage																								
	<p>Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4.</p>																								
	<p align="center">Owner of the sanitary sewer system</p> <p align="center">Activity to reduce/eliminate SSOs and I&I: (description)</p> <p align="center">SSO incidents discovered</p> <p align="center">SSO incidents resolved</p> <p align="center">Inflow / infiltration incidents discovered</p> <p align="center">Inflow / infiltration incidents resolved</p>	<p align="center">Village of Wellington Utilities Department</p> <table border="1"> <tr> <td align="center">100</td> <td>installed 100 rain guards</td> <td align="center">Utility Dept.</td> <td align="center">Field Services/Corey</td> </tr> <tr> <td align="center">2</td> <td>LS65 & LS 53 Spillage Reports</td> <td align="center">Utility Dept.</td> <td align="center">Laurie Hand</td> </tr> <tr> <td align="center">2</td> <td>LS65 & LS 53 Spillage Reports</td> <td align="center">Utility Dept.</td> <td align="center">Laurie Hand</td> </tr> <tr> <td align="center">0</td> <td></td> <td align="center">Utility Dept.</td> <td align="center">Field Services/Corey</td> </tr> <tr> <td align="center">0</td> <td></td> <td align="center">Utility Dept.</td> <td align="center">Field Services/Corey</td> </tr> </table>				100	installed 100 rain guards	Utility Dept.	Field Services/Corey	2	LS65 & LS 53 Spillage Reports	Utility Dept.	Laurie Hand	2	LS65 & LS 53 Spillage Reports	Utility Dept.	Laurie Hand	0		Utility Dept.	Field Services/Corey	0		Utility Dept.	Field Services/Corey
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0		Utility Dept.	Field Services/Corey																						
0		Utility Dept.	Field Services/Corey																						
Part III.A.7 Summary	<p>For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p>Strengths: Continued training and education (videos, distribution of brochures/flyers, PSAs & website page(s) info) to ensure detection of any pollutants that might be discharged into the drainage system.</p> <p>Limitations: Being able to identify the responsible party(ies) continues to be difficult when random dumping is found. Sanitary Sewer Overflow reporting is already required of the operator of the sanitary sewer system by FDEP; this seems to be a duplication of reporting efforts.</p> <p>SWMP Revisions implemented to address limitations: Improvements needed by FDEP to on tracking overflow reports.</p>																								
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections																								
	<p>Report on the high-risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.</p> <p>Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.</p>																								

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed		Documentation / Record	Entity Performing the Activity	Comments
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions			
	Operating municipal landfills	0			Inventory of Solid Waste Sites		
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	10	10	0	EPA Spreadsheet (ESRI)	Bill Conerly, Public Works SWM	Inspections conducted by Bill Conerly with no evidence of an infractions
	EPCRA Title III, Section 313 facilities (TRI)	0			EPA spreadsheet (ESRI)		
	Facilities determined as high risk by the permittee	0			Researched Property Use Type via PBC Property Appraisers Database	Public Works	Bill Conerly/SMT
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries						
	Report the number of high risk facilities sampled.						
	High risk facilities sampled	0		N/A			
Part III.A.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.						
	Strengths: Inspections continue to assist in detecting any pollutants that may be discharging into the drainage system.						
	Limitations: None						
	SWMP revisions implemented to address limitations: N/A						
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices						
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.						
	PERMITTEE SITES: Construction site plans reviewed	2	NPDES Inspection & Maintenance Report 2018- 2019 - New Development	Engineering			

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			and Significant Redevelopment and Engineering Permits 10/01/18 thru 09/30/19		
	PERMITTEE SITES: Construction site plans approved	2	NPDES Inspection & Maintenance Report 2018- 2019 - New Development and Significant Redevelopment and Engineering Permits 10/01/18 thru 09/30/19	Engineering	
	PRIVATE SITES: Construction site plans reviewed	197	NPDES Inspection & Maintenance Report 2018- 2019 - New Development and Significant Redevelopment and Engineering Permits 10/01/18 thru 09/30/19	Engineering	
	PRIVATE SITES: Construction site plans approved	106	NPDES Inspection & Maintenance Report 2018- 2019 - New Development and Significant Redevelopment and Engineering Permits 10/01/18 thru 09/30/19	Engineering	

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A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.				
	Notified of ERP stormwater permit requirements	110	NPDES Inspection & Maintenance Report 2018- 2019	Engineering	
	Confirmed ERP coverage	14	NPDES Inspection & Maintenance Report 2018- 2019	Engineering	
	Notified of CGP stormwater permit requirements	110	NPDES Inspection & Maintenance Report 2018- 2019	Engineering	
	Confirmed CGP coverage	14	NPDES Inspection & Maintenance Report 2018- 2019	Engineering	
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	2	Jim Kelley's Inspection Calendar & Binks Forest Pedestrian Bridge (LAP) & NPDES Inspection & Maintenance Report 2017- 2018	Engineering	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	65	Jim Kelley's Inspection Calendar	Engineering	
	PERMITTEE SITES: Percentage of active construction sites inspected	100	NPDES Inspection &	Engineering	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p align="center">PRIVATE SITES: Active construction sites</p> <p align="center">PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs</p> <p align="center">PRIVATE SITES: Percentage of active construction sites inspected</p> <p align="center">Enforcement Action</p>		<p align="center">108</p> <p align="center">1694</p> <p align="center">100</p> <p align="center">41</p>	<p align="center">Maintenance Report 2017-2018</p> <p align="center">NPDES Inspection & Maintenance Report 2018-2019;</p> <p align="center">Jim Kelley's Inspection Calendar</p> <p align="center">NPDES Inspection & Maintenance Report 2017-2018</p> <p align="center">Jim Kelley's emails, NPDES Violations, Warning, Citations, Stop Work & Fines</p>	<p align="center">Engineering</p> <p align="center">Engineering</p> <p align="center">Engineering</p> <p align="center">Engineering</p>	
Part III.A.9.c	Construction Site Runoff — Site Operator Training					
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).					
	<p align="center">Permittee construction site inspectors</p>	<p align="center">DEP Certification</p> <p align="center">5</p>	<p align="center">Annual Training</p> <p align="center">5</p>	<p align="center">Copy of certificates & Sign-in Sheets for Annual Training-Excal Video Ground Control-Stormwater Pollution Prevention for Construction, Rain Check-Stormwater Pollution Prevention, &</p>	<p align="center">Engineering</p>	<p align="center">Patrick Barthelemy, Jim Kelley, Jonathan Reinsvold, Alyssa Dalloo, Carlos Canales</p>

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Permittee construction site plan reviewers		5	SPCC Controlling Oil Sign-in Sheets for Annual Training-Excal Video Ground Control- Stormwater Pollution Prevention for Construction, Rain Check- Stormwater Pollution Prevention, & SPCC Controlling Oil	Engineering	Patrick Barthelemy, Jim Kelley, Jonathan Reinsvold, Alyssa Dalloo, Carlos Canales
	Permittee construction site operators		5	Sign-in Sheets for Annual Training-Excal Video Ground Control- Stormwater Pollution Prevention for Construction, Rain Check- Stormwater Pollution Prevention, & SPCC Controlling Oil	Engineering	Patrick Barthelemy, Jim Kelley, Jonathan Reinsvold, Alyssa Dalloo, Carlos Canales
Part III.A.9 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	Strengths: We continue to monitor and enforce the NPDES requirements for all private and public sites.					
	Limitations: Since FDEP has limited inspectors for multiple counties, their assistance in special circumstances is hard to obtain.					
	SWMP revisions implemented to address limitations: FDEP still needs to add more personnel					

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable in Year 4)

A.	Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
		None
B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)
		None

SECTION IX. TMDL Status Report

A.	YEAR 1 Provide a table summarizing the status of the TMDL process. Include a list of prioritized TMDLs and their monitoring and implementation schedule; and include the Identification number of the outfall prioritized for TMDL monitoring.								
	WBID Number	Segment/ Waterbody/ Basin	Pollutant of Concern	TMDL DEP / EPA	Percent Reduction (WLA)	Priority Rank	Priority Outfall	Monitoring Summary / BPCP Due Date	Supplemental SWMP Due Date
	WBID No.-N/A			<input type="checkbox"/> / <input type="checkbox"/>		1		(Year 3 AR)	(Year 4 AR; N/A) if BPCP)
				<input type="checkbox"/> / <input type="checkbox"/>					
B.	YEAR 3 and annually thereafter, provide a summary of the estimated load reductions that have occurred for the pollutant(s) of concern being discharged from the MS4 to the TMDL water body during the reporting period and cumulatively since the date the Supplemental SWMP was implemented. Year 3: Submit a Monitoring data summary or BPCP (if applicable). Year 4: Submit a Supplemental SWMP (if applicable).								
	WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	Projected load reductions OR Actual load reductions to date				
	N/A		(Year 3 AR)	(Year 4 AR; N/A if BPCP)					
C.	Provide a brief statement as to the status of TMDL implementation according to Part VIII.B of the permit (e.g. status of monitoring to validate WLA): No discharges to a TMDL WBID at this time.								



Village of Wellington
MS4 MONITORING REQUIREMENTS
POLLUTANT ANNUAL LOADINGS
REPORT CYCLE 4, YEAR 3



MOCK • ROOS
CONSULTING ENGINEERS

Engineer’s Signature Page.....3

1. Village of Wellington Annual Loading Requirements4

1.1. Introduction4

2. Pollutant Loading Estimates4


2.1. Pollutant Loading Discussion.....4

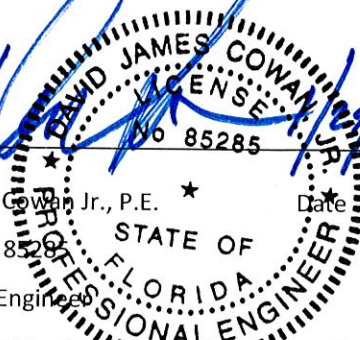
2.2. Additional Reductions Based on Wellington’s Stormwater Management Programs9

3. Conclusions10

Engineer's Signature Page

I hereby state, as a Professional Engineer in the State of Florida, that this report MS4 MONITROING REQUIREMENTS ANNUAL LOADINGS REPORT CYCLE 4, YEAR 3, dated January 2020, for the Village of Wellington, was prepared and assembled under my direct responsible charge. This certification is provided in accordance with Florida Board of professional Engineers Rule of Certification under Chapter 61G15- 23.003.



David J. Cowan Jr., P.E. Date: 1/24/2020
P.E. No. 85285
Project Engineer

MOCK ROOS
CONSULTING ENGINEERS

5720 Corporate Way

West Palm Beach, FL 33407

Florida C.A. No. 48

(Reproductions are not valid unless signed, dated
and embossed with Professional's Seal)

1. Village of Wellington Annual Loading Requirements

1.1. Introduction

The Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) permit is part of a federal program designed to reduce stormwater pollutant discharges to receiving waters of the United States. The Village of Wellington is one of forty permittees covered by Permit No. FLS000018-004. The current cycle 4 permit was issued on September 8, 2016. This pollutant loading analysis as required under Part V of the NPDES permit.

The fundamental goal of the Village with respect the NPDES MS4 permit is to reduce the discharge of pollutants to the receiving water bodies to the maximum extent reasonable possible. In the permit Part V (A), each permittee is required to provide an estimate of their average annual pollutant loading. In Palm Beach county it has previously been agreed that loading analysis would be on a major watershed. The permit requires the model be based on Event Mean Concentration (EMCs) collected from storm event monitoring or the State's EMCs database. These EMC are to be based on land use categories, and contain six water quality parameters, Biochemical Oxygen Demand (BOD₅) (mg/L), Total Copper (mg/L), Total Nitrogen (as N) (mg/L), Total Phosphorus (mg/L), Total Suspended Solids (TSS) (mg/L), Total Zinc (mg/L). The model results are to be summarized in third year of the current Cycle 4 permit and compares to the previous Cycle 3 results. The summary report should also include information about the sources of the data and, methods used in the model's calculations. It is important that the rainfall data be normalized to reflect variations in annual rainfall. Rainfall data should be prepared as an average annual value, due to the requirement of comparing current cycles to prevent past cycle and loads from be skewed by rainfall variations.

The final report of the loading model must state if the loads are increasing or decreasing in the watershed from the past cycle to the current cycle. If the loads have increased, the permittee is required to evaluate its Stormwater Management Plan and revise as needed to reduce loads. These revisions shall be submitted in the year four report.

2. Pollutant Loading Estimates

2.1. Pollutant Loading Discussion

In October 2019, a pollution loading model was completed as a joint activity by the Palm Beach County MS4 Group. Details on the model's sources of the data and, methods used in the model's calculations can be found on the groups website within the report titled Cycle 4, Year 3 'Summary of Average Annual Pollutant Loading Model Activities' (2019).

Wellington lies within the C-51 watershed and can be identified as contributing to the Water Body Identification number (WBID) as follows, WBID 3245G, WBID 3245F WBID 3252C, and WBID 3252F. Figure 1 graphically depicts these basins.

Pollutant loading data for the C-51 Basin will be used for Wellington's evaluation. Pollutant loadings for all six (6) parameters are reported for year 2013 (Table 18, page 31 of the group report) and 2018 (Table 19, page 32 of the group report) and, specifically, for Wellington in Table 1 below. The Tables from the groups report can be seen following Figure 1. Comparison of Cycle 3 and Cycle 4 modeling efforts found that the pollutant loads are decreasing in the Village of Wellington within C-51.

TABLE 1 : RESULTS FROM LOADING ANALYSIS

Pollutant Loadings (lbs/year)
- Village of Wellington - C51- Watershed -

Parameter	<u>BODs</u>	<u>TSS</u>	<u>TP</u>	<u>CU</u>	<u>ZN</u>	<u>TN</u>
2013 Loads	381,601	621,909	15,850	742	3,813	237,820
2018 Loads	371,342	605,673	15,732	732	3,570	211,819
Difference from 2013 to 2018	10,259	16,236	118	10	243	26,001
Percent (%) Reduction	3%	3%	1%	1%	7%	12%

All parameters indicate decreases between the Cycle 3 and Cycle 4 within the C-51 Watershed. Wellington has in place additional stormwater management programs that further reduces the nutrient loading into the C-51 Watershed. These programs include maintenance of canals, catch basins, culvert cleaning, street sweeping, equestrian waste hauling and public education. These programs are discussed in the next section.

FIGURE 1 BASINS AND WIBS MAP FOR VILLAGE OF WELLINGTON'S MS4 BOUNDARY

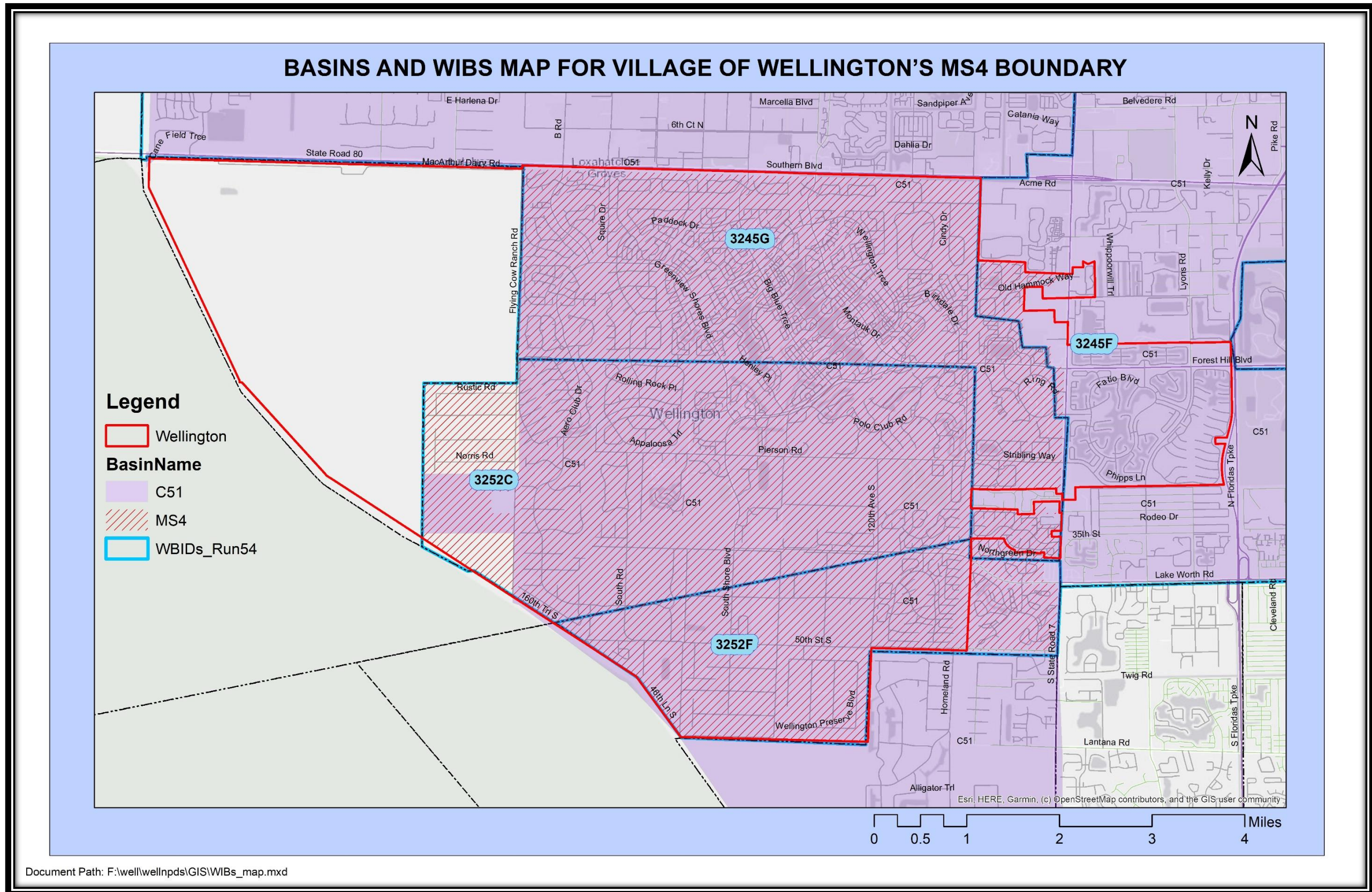


Table 18 Pollutant Loading Results Watershed C-51 1 of 2

**Watershed C-51
2013 Pollutant Loads (lbs./yr.)**

Municipality	BOD₅	TSS	TP	CU	ZN	TN	Area (ac.)	Percent
Cloud Lake, Town of	880	1,226	48	2	8	1,234	35.84	0.03%
FDOT – District Four	76,026	412,710	3,362	374	1,407	25,337	2,051.58	1.75%
FDOT – Turnpike Enterprises	13,190	44,252	537	54	207	4,453	437.88	0.37%
Glen Ridge, Town of	2,654	9,497	156	6	25	2,836	85.63	0.07%
Greenacres, City of	20,134	107,137	1,253	50	226	21,637	505.41	0.43%
Haverhill, Town of	7,100	33,783	453	19	76	8,236	189.33	0.16%
Indian Trail Improve. District	437,655	675,918	20,586	748	3,512	428,645	20,145.73	17.20%
Lake Clarke Shores, Town of	17,783	80,127	1,240	46	184	25,882	499.64	0.43%
Lake Worth, City of	17,024	94,144	754	46	202	5,263	425.58	0.36%
NPBCID	50,665	79,328	1,771	87	448	18,166	2,563.30	2.19%
Palm Beach County	104,962	474,148	4,702	443	1,738	36,722	4,217.60	3.60%
Palm Springs, Village of	56,838	296,489	2,810	136	600	28,860	1,276.83	1.09%
Royal Palm Beach, Village of	62,446	95,667	2,027	124	629	21,362	2,690.76	2.30%
Wellington, Village of	381,601	621,909	15,850	742	3,813	237,820	20,040.53	17.11%
West Palm Beach, City of	58,324	277,313	2,545	142	823	22,401	1,718.71	1.47%
All MS4 Total	1,307,282	3,303,650	58,096	3,020	13,899	888,854	56,818.97	48.51%
All Watersheds Total	3,015,247	9,577,086	137,506	6,440	28,706	1,770,218	117,139.15	100.00%

Table 19 Pollutant Loading Results Watershed C-51 2 of 2

**Watershed C-51
2018 Pollutant Loads (lbs./yr.)**

Municipality	BOD ₅	TSS	TP	CU	ZN	TN	Area (ac.)	Percent
Cloud Lake, Town of	858	1,165	47	1	8	1,231	35.84	0.03%
FDOT – District Four	62,158	292,203	2,993	289	933	23,091	2,051.58	1.75%
FDOT – Turnpike Enterprises	13,109	44,096	535	54	206	4,436	437.88	0.37%
Glen Ridge, Town of	2,051	2,817	107	4	18	2,642	85.63	0.07%
Greenacres, City of	20,140	107,180	1,254	50	226	21,639	505.41	0.43%
Haverhill, Town of	6,718	32,160	438	17	70	8,144	189.33	0.16%
Indian Trail Improve. District	437,414	665,351	20,595	747	3,499	428,941	20,145.73	17.20%
Lake Clarke Shores, Town of	17,787	80,162	1,239	47	184	25,810	499.64	0.43%
Lake Worth, City of	16,270	88,318	757	45	183	5,289	425.58	0.36%
NPBCID	51,669	80,105	1,787	88	453	18,383	2,563.30	2.19%
Palm Beach County	104,814	472,503	4,702	442	1,730	36,720	4,217.60	3.60%
Palm Springs, Village of	57,320	296,875	2,610	135	595	18,183	1,276.83	1.09%
Royal Palm Beach, Village of	62,446	95,627	2,027	124	629	21,360	2,690.76	2.30%
Wellington, Village of	371,342	605,673	15,248	732	3,570	211,819	20,040.53	17.11%
West Palm Beach, City of	58,325	277,749	2,548	142	580	20,234	1,718.71	1.47%
All MS4 Total	1,282,420	3,141,982	56,886	2,915	12,883	847,922	56,818.97	48.51%
All Watersheds Total	2,990,483	9,387,559	136,117	6,332	28,061	1,725,169	117,139.15	100.00%

Reductions %

	BOD ₅	TSS	TP	CU	ZN	TN
All MS4 Total	1.9%	4.9%	2.1%	3.5%	7.3%	4.6%
All Watersheds Total	0.8%	2.0%	1.0%	1.7%	2.2%	2.5%

2.2. Additional Reductions Based on Wellington's Stormwater Management Programs

The annual pollutant loading model accounts for only some pollutant reduction/control practices that exist within the contributing area. Nonstructural controls (e.g., land use controls, buffer zones/greenspace, etc.) and structural controls (e.g., onsite and regional detention and retention basins, lakes and ponds, swales, etc.) can be incorporated into the model to determine the effect on the pollutant loads. The model only accounts for removal of pollutants by BMPs in the stormwater runoff, i.e., pollutant loads in the base flow are not reduced by the BMPs. The model does not currently incorporate reduction of loads of individual permittees Stormwater Management Programs such as street sweeping, public outreach, waste removal or land development regulations.

One of the major differences between the Village of Wellington and many of the other MS4's in Palm Beach County is the equestrian land use. The Village of Wellington has the largest population of both yearly and seasonal horses. Wellington also has a livestock waste ordinance which requires the waste to be hauled to an approved disposal site and haulers are required to submit annual reports in the amount of material removed. Since the equestrian waste hauling quantities are considerably higher (i.e. 61 times higher for TP) than the pollutant loading modeling result, it was assumed that 100% removal of the modeling equestrian load is the appropriate amount for this reduction in the table. Equestrian waste hauling captures and properly disposes of the waste material before it becomes part of the runoff. All other reductions are based on information included in Wellington's Cycle 4 Year 3 Annual Report (pages 11 and 12).

The premise of the MS4 permit program is that the SWMP will reduce pollution loadings. BMP's reduce the amount of pollutant loading to a system by reducing the volume of discharge or the pollutant being carried by the discharge. Other methods of reducing loads to the system include, stormsewer cleaning, street sweeping, waste hauling, public outreach (public service announcements, fertilizer ordinances and land regulations) reduce pollutants before they become part of the runoff. Table 2 details the results from the loading model and additional reductions due to Stormwater Management Programs and the resulting totals.

TABLE 2 : RESULTS FROM LOADING ANALYSIS

Pollutant Loadings (lbs/year)
- Village of Wellington - C51- Watershed -

Parameter	<u>BODs</u>	<u>TSS</u>	<u>TP</u>	<u>CU</u>	<u>ZN</u>	<u>TN</u>
2013 Loads	381,601	621,909	15,850	742	3,813	237,820
2018 Loads	371,342	605,673	15,732	732	3,570	211,819
Reductions						
Public Education (6% - _rounded)	22,896	37,315	951	45	229	14,269
Equestrian Hauling Load Reduction	0	23,835	321	0	0	4,756
Street Sweeping Hauling	0	0	1299	0	0	2,027
Clean-out of Catch Basins, BMP, Canals	0	0	2268	0	0	3,693
New 2018 Totals	338,187	528,287	10,775	677	3,098	161,073
Percent (%) Reduction	9.8%	14.6%	46.0%	8.1%	15.2%	31.5%

3. Conclusions

Wellington’s stormwater management programs are very effective in reducing nutrient loadings. No revisions to the Village’s Stormwater Management Programs (SWMP) are needed at this time.

Village of Wellington/Acme Improvement District
2019 Surface Water Quality Report

FY 2018-2019

Prepared By

MOCK • ROOS

CONSULTING ENGINEERS

PA# B9704.00



W THE VILLAGE OF
WELLINGTON

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Exhibits

Exhibit A - Location Map of Surface Water Sample Sites

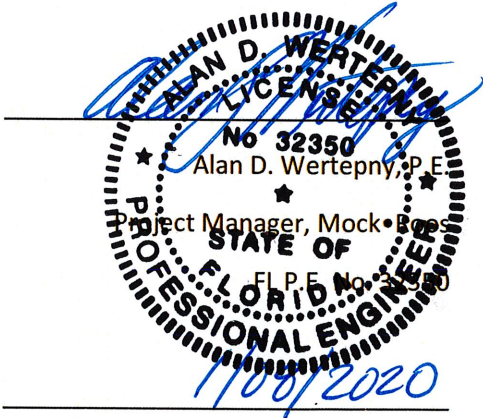
Exhibit B - Total Phosphorous Sample Results

Exhibit C - Water Quality Summary

Report Certification

Engineer's Certification

I hereby certify, as a Professional Engineer in the State of Florida, that this 2019 Surface Water Quality/NPDES Assessment Report for the Village of Wellington was assembled under by direct responsible charge based on information received and coordinated with the Village of Wellington. This certification is provided in accordance with Florida Board of Professional Engineers Rule of Certification under Chapter 61G15-23.003.



Mock•Roos

5720 Corporate Way

West Palm Beach, FL 33407

Florida C.A. No. 48

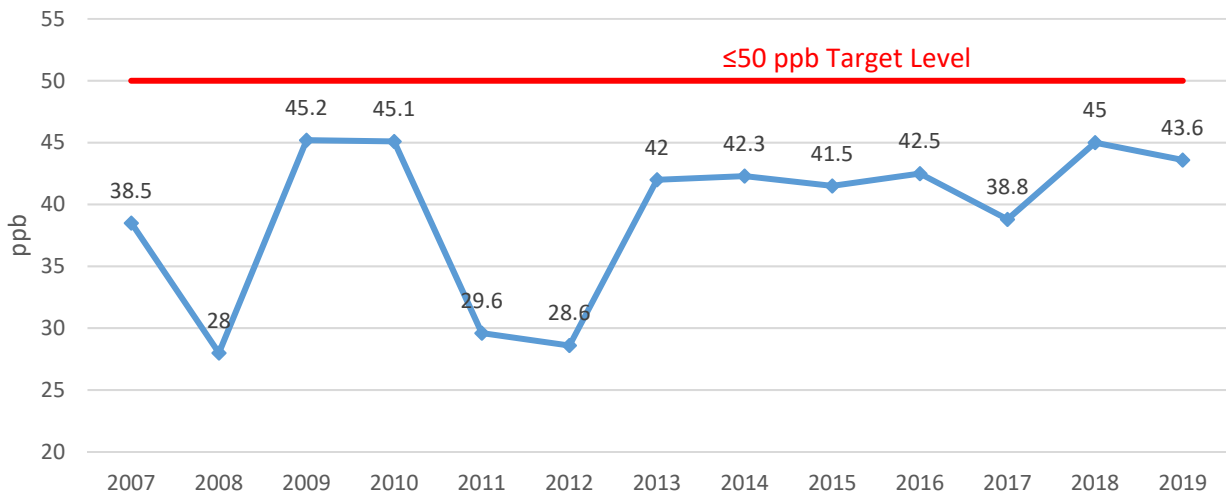
(Reproductions are not valid unless signed, dated,
and embossed with an Engineer's Seal)

Executive Summary

This annual report serves to comply with the annual reporting requirements (1) of the South Florida Water Management District (SFWMD) Permit No. 50-00548-S (Application No. 070330-35, Condition No. 13 and Application No. 090901-13) and, (2) the Florida Department of Environmental Protection (FDEP) Municipal Separate Storm Sewer System Permit No. FLS000018-004 Section III Assessment Program.

Wellington/Acme Improvement District continues to make strides to improve surface water quality discharged to the regional surface water system (C-51 Canal) by implementing stormwater management programs to meet the target, Total Phosphorus (TP) level of 50 parts per billion (ppb). A graph depicting the water quality sampling results for the past thirteen (13) years, including this past year, are presented in the table below. All sampling and analyses conducted for the eleventh-year reporting period are in compliance with the requirements of the permit and approved sampling and testing standards and procedures. In 2018 Wellington managed and removed 198,600 pounds of phosphorus from the equestrian operations and 6,713 pounds from other Best Management Practices for a total of about 92.5 metric tons.

Total Phosphorus Data
Average Annual Geometric Mean
2007 through 2019 Reporting Period



As shown in the graph, TP levels for the twelve-year reporting period remain well below the 50-ppb target level, demonstrating that Wellington stormwater management programs are effective.

Activities over the past thirteen years that have contributed to achieving the TP target level include:

- Continued implementation and enforcement of Best Management Practices and Ordinances

- Ongoing maintenance of the stormwater management system (canal dredging, canal sump cleaning, mechanical weed harvesting, pump station trash rack debris removal, street sweeping, and equestrian waste management and disposal)
- Continued implementation and enforcement of stormwater permit criteria for land development
- Continued monitoring and maintenance of the vegetation in the Wellington Environmental Preserve

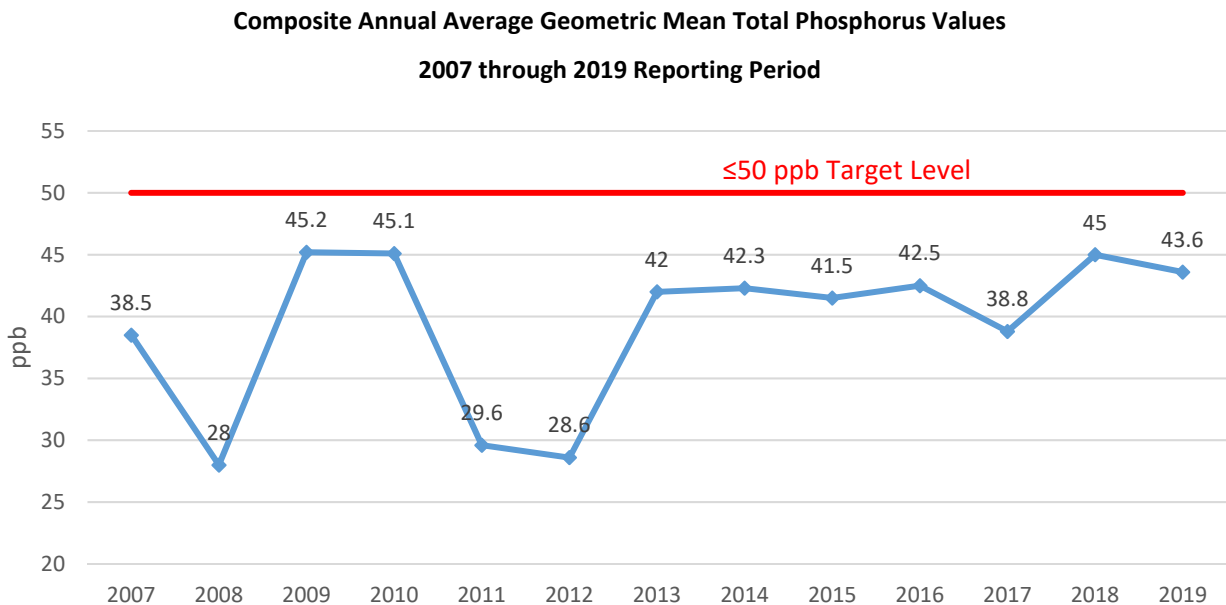
Section 1 – Introduction

Pursuant to the SFWMD Permit, Wellington/AID continues to take significant strides to reduce (TP) levels and improve the quality of surface water discharged to the regional surface water system. This annual report provides the results for the storm water quality testing over the past year, as well as, the actions taken by Wellington/AID to maintain and improve surface water quality.

Section 2 – Surface Water Sampling Program - Phosphorus

Wellington collected and tested approximately 754 surface water samples for TP from 29 sampling sites (shown on Exhibit A) from October 2018 through September 2019. As prescribed, Wellington collected samples after October – September each storm event and/or bi-weekly at each location. The sampling locations include the five (5) locations where the Wellington/AID system discharges to the regional water system (C-51 Canal). All samples were collected and tested in accordance with accepted standards and protocols. Wellington personnel collected all samples. TP laboratory testing was conducted by Pace Environmental, Inc. of Ormond Beach, Florida, a private, independent laboratory.

A summary of the annual geometric mean of TP levels for the five discharge locations for the eleven years of data is provided in the graph below:



As shown in the table, the average annual geometric mean for TP levels for the thirteen-year reporting period is consistently below the 50-ppb target level.

The individual test results for each of the five C-51 discharge locations for October 1, 2018 – September 30, 2019, are provided in Exhibit B. The spreadsheet provided is color coded. Clear cells contain TP values less than 50 ppb. Blue cells contain values between 51-150 ppb. Red cells contain values over 150 ppb. The use of annual geometric mean values to represent annual data sets is consistent with the FDEP Impaired Water Rule and applicable numeric nutrient criteria.

Exhibit C provides a summary of the data for all the sampling locations that are a part of Wellington’s surface water quality sampling program for October 1, 2018 – September 30, 2019. As shown in Exhibit C, the highest annual geometric mean levels are in Basin B at Sites 44. Land uses adjacent to these sites include equestrian, parks, utilities, and residential land uses. Per State Statutes, Best Management Practices (BMPs) for equestrian fall under the authority of the Florida Department of Agricultural and Consumer Services (FDACS).

Section 3 – Best Management Practices and Infrastructure Maintenance

Wellington has adopted and implemented a variety of BMPs geared toward reducing TP – either by source control or by operational and maintenance activities. Key practices and revisions are described below.

Fertilizer Control

As part of Wellington’s BMP Ordinance (No 2012-12), the Village adopted standards to enhance BMP’s for fertilizer storage and application.

Key provisions of this Ordinance include:

- All fertilizers shall be stored in a dry storage area protected from rainfall and ponding.
- Fertilizers containing an excess of two percent phosphate/phosphorus per guaranteed analysis label shall not be applied to turf grass, pastures, paddocks, or be used in nurseries unless justified by a soil test.
- Fertilizers in excess of two percent phosphate/phosphorus shall not be applied within ten feet of the edge of water or within ten feet of a drainage facility.
- Liquid fertilizers in excess of two percent phosphate/phosphorus shall not be applied through an irrigation system within ten feet of the edge of water or drainage facility.
- Fertilizers must be applied in accordance with the published application rates and frequencies. No additional application of fertilizers is permissible unless soil tests determine a deficiency.

- Fertilizers and grass clippings shall be removed from impervious surfaces and prevented from entering the surface water system.
- Commercial fertilizer applicators must possess required certifications and licenses and must register with Wellington.

Licensed Village Code Compliance Officers are responsible for making inspections of fertilizer storage areas to ensure compliance with the provisions of this section of the Code of Ordinances. Wellington also has developed a public education campaign to educate residents on the proper types, storage, amounts and application of fertilizers. The Village will continue to enforce the provisions of the ordinance.

Livestock Waste Storage and Disposal

The Village Code of Ordinance Section 30-153 provides standards for the storage and disposal of livestock waste.

Provisions in the Ordinance include:

- Each livestock facility must have an approved waste storage area.
- Livestock waste storage areas are required to have an impermeable floor with sidewalls on three sides.
- The size of the storage area must be proportioned to the number of livestock served by the storage area.
- Approved roll-off or dumpster containers must be placed on a concrete or asphalt pad with a lip around it to contain seepage.
- All livestock waste storage areas must be covered.
- Waste storage areas must be located at least five (5) feet away from any roof overhang, fifty (50) feet from any public drainage conveyance or drainage inlet, at least one hundred (100) feet from any waterbody and at least one hundred (100) feet from a potable water supply well.
- All livestock waste must be hauled to an approved disposal site and haulers must be registered.
- Haulers are required to submit annual reports on the amount of material removed.

Equestrian waste haulers reported 302,433 cubic yards (90,730 tons) of collected manure and bedding material properly disposed of for the reporting period. Based on the FDACS BMP manual for equine operations, the average phosphorus concentration is 2.5 pounds per ton of manure containing bedding material. Therefore, the amount of phosphorus removed by this program is estimated at 226,825 pounds.

Mechanical Weed Removal

The Village uses and maintains a weed harvester as part of its overall maintenance program to keep Village waterways functional for stormwater conveyance, as well as appearance. The weed harvester is able to cut five and a half (5 ½) feet below the water's surface. Material is removed from the water and transferred to a dump truck where it is disposed of at the Public Works Storage site in vegetation containers for periodic removal by a contracted waste management service. The need for operation of the weed harvester is determined by visual inspection of the waterways. During the 2018-2019 reporting period, 252 cubic yards of material were removed.

Using the Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 241 pounds of phosphorus removed.

Canal Dredging and Sump Cleaning

Canal dredging and canal sump cleaning at 7 sites is carried out for the purpose of removing bottom sediments and reusing them to stabilize the canal right-of-way. Proactive maintenance of the Village's canal system is necessary to keep the waterways clean and functional for stormwater conveyance, with the added benefit of enhancing the visual appearance. Therefore, the Village of Wellington Public Works Department performs canal dredging maintenance work throughout the Village waterways. Annual and periodic inspections determine what canals, if any, have sediment buildup. Once these canals are identified, the depth of the canal is measured and, if determined to be insufficient, are placed on the schedule to be dredged.

In the reporting period October 2018 – September 2019 Wellington's canal dredging program and canal sump cleaning removed 889 cubic yards of material from the waterways. Based on Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 850 lbs. of phosphorus removal.

Pump Station Trash Rack Debris Removal

Trash racks are located at Pump Stations #3, 4, 6, 7, 8, and 9 and are part of the maintenance activities used to remove trash and debris from the Village's waterways. These racks are programmed to automatically turn on and run whenever pumps are discharging water. The racks place the debris to the side of the canal to be pick up manually and transported to the Public Works Storage site in vegetation containers for periodic removal by a contracted waste management company.

In this reporting period, Wellington's pump station trash racks removed 168 cubic yards of material. Using the Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 139 pounds of phosphorus removed.

Street Sweeping

Wellington maintains a Street Sweeping Program that collects and removes debris (paper, leaves, vegetation, metals, waste products, sediments, etc.) from streets and roadways within the Village. This program has two primary benefits – flood prevention and improved stormwater quality. Debris can cause blockages in the stormwater facilities resulting in

localized flooding during rainfall events. If left in place, vegetation and other materials can break down to release nutrients into the waterways. Collection and removal of this debris prevents these materials from reaching and degrading Wellington's surface waters. Sweeping is performed daily following a pre-determined route from Monday through Thursday. Street sweeping frequency varies by specific roadway and may be weekly, bi-weekly, or monthly. During the reporting period, 7,259 miles of roadway were swept, and 1,570 cubic yards of material were removed. Using the Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 1,299 pounds of phosphorus removed.

Catch Basin Cleaning

Wellington has an inventory of 2,173 catch basins. In the 2018-2019 reporting period, these catch basins were inspected approximately twice a month, for accumulation of trash, debris, vegetation, sediment and general condition. Any material discovered in these catch basins was collected and placed in bags for disposal.

During the reporting period, Wellington's catch basin cleaning program removed 1046 cubic yards of material. Using the Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 1000 pounds of phosphorus.

Culvert Cleaning

In 2018-2019, Wellington's inventory of culverts totaled 35.4 miles. Wellington has a goal to inspect at least 10% of these culverts annually. During the reporting period, 35.4 miles were inspected, and Wellington's culvert cleaning program removed 16.7 cubic yards of material. Using the Florida Stormwater Association Nutrient Removal Assessment Tool, this equates to 16 pounds of phosphorus removed.

Litter Control

Wellington conducts three litter control programs. Wellington roadway staff weekly collects roadway trash/litter along its 1,722 miles of roadway. Wellington Public Works personnel has an Adopt-A-Road Program covering 33.3 miles. Wellington also participates in a neighborhood annual Keep Palm Beach County Beautiful/America Clean Event. Total amount of material collected in the 2018 – 2019 reporting period was 2,616 cubic yards which equates to 2,165 pounds of phosphorus removed.

Annual Phosphorus Load Reduction

Wellington's 2018-2019 BMP program removed or captured an estimated total of 116 metric tons of phosphorus from entering the stormwater management system (equestrian waste, street sweeping, mechanical weed removal, canal dredging, canal sump cleaning, pump station trash rack debris removal, catch basin cleaning, culvert cleaning and litter control) prior to discharging into the C-51 Canal.

Section 4 – Other Programs

Land Development Permit

In the 2018-2019 reporting period, Wellington received 199 proposed site plan applications and approved 108 plans. The review and approval included both temporary and permanent stormwater treatment practices. Project applicants were advised that coverage may be required under the FDEP National Pollutant Discharge Elimination System (NPDES) Construction Generic Permit (CGP) and/or a SFWMD Environmental Resource Permit (ERP). During the reporting period, 110 projects were notified of needing CGP coverage and ERP coverage. Wellington's engineering personnel confirmed that 14 projects required and obtained CGP and ERP coverage. During construction of both Wellington-owned and private sites, Wellington engineering staff performed construction site inspections which included observation of proper stormwater, erosion and sedimentation control BMPs. During the reporting period, 110 active construction projects were inspected and a total of 1,759 inspections were carried out. Wellington issued 41 Notices of Violation.

Wellington Environmental Preserve

Wellington's Environmental Preserve (Section 24) is located in Section 24, Township 44 South, Range 40 East, Palm Beach County Florida (west of water quality monitoring Sites 9-In and S24-Out). Section 24 includes 251.5 acres of wetlands and a 364.4-acre impoundment. The primary purpose of the impoundment is for stormwater storage and attenuation (flood protection). Additional benefits include passive recreation and stormwater water quality improvement. Wellington staff inspects and maintains this facility including the control of invasive exotic vegetation and monitoring the growth of the natural vegetation and planting. Review of Exhibit C indicates that the annual geometric mean for total phosphorus in water entering then leaving the impoundment was reduced by 9.2%

Florida Department of Agricultural and Consumer Services (FDACS)

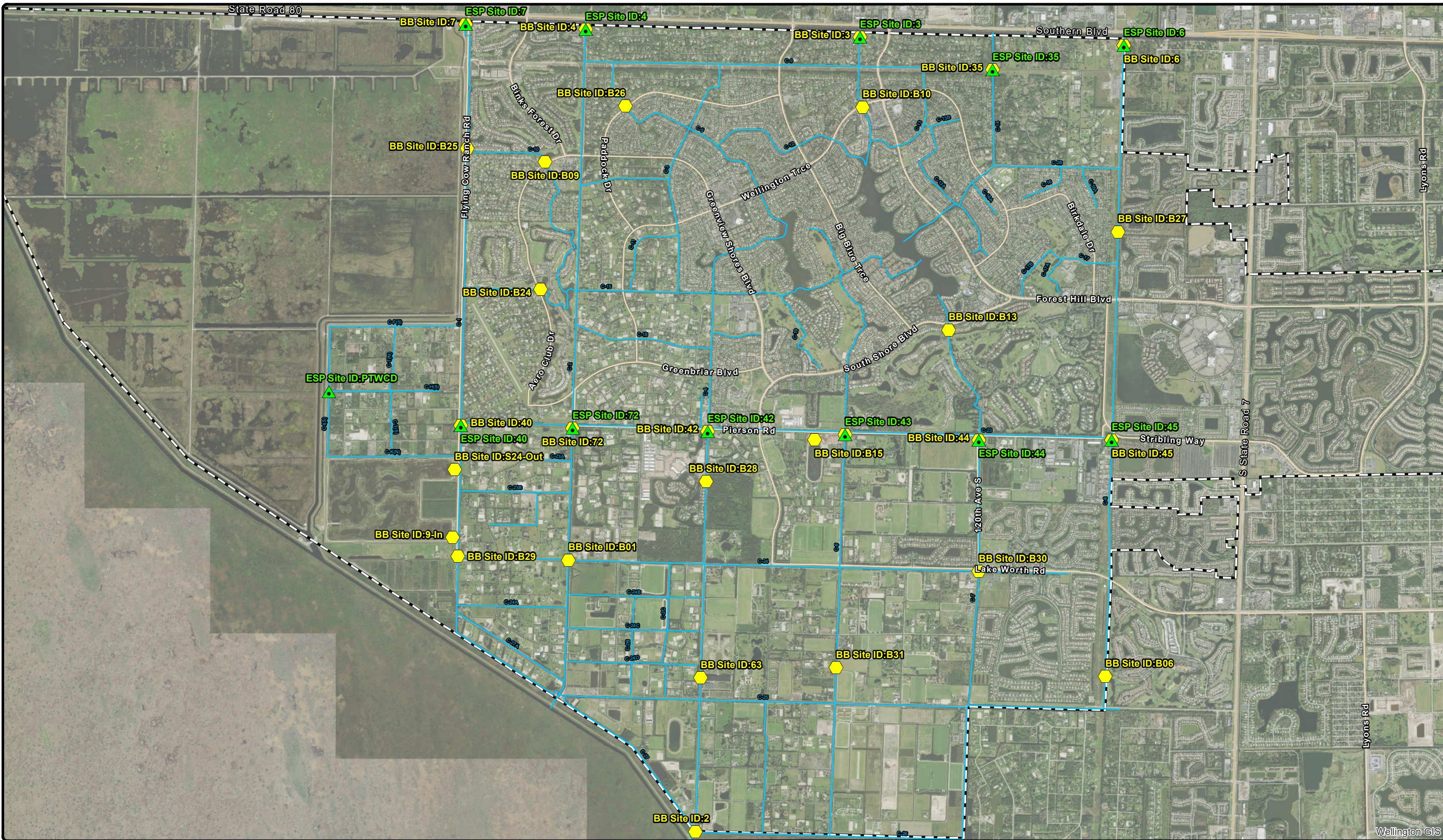
In June 2016, FDACS sent a letter to Wellington indicating that Wellington's BMPs for equine operations and nurseries were in a jurisdictional conflict with Florida Statutes and the FDACS BMP program. A bona fide farm operation on land classified as agricultural is regulated through implemented BMPs adopted either by FDACS or the SFWMD. Since SFWMD had not adopted Wellington's BMPs as their own, the FDACS BMPs were applicable. In response, Wellington initiated discussions with FDACS to develop a cooperative program. On May 9, 2017, Wellington Village Council approved resolution No. 2017-16 which authorized the Mayor to execute Memorandum of Agreement No. 24182 between Wellington and FDACS regarding enrollment and implementation of FDACS Equine Best Management Practices. This agreement addresses BMP enrollment in FDACS program, BMP enrollment training, technical assistance, implementation assurance visits of enrolled equine BMP and landowners, and follow-up by FDACS of any BMP implementation deficiency noted by Wellington staff. Currently, Wellington is working with FDACS on enrollment and education of the FDACS BMPs as they relate to water quality. To date, Wellington has notified roughly 15 equestrian farm owners of the FDACS BMP program. The Village has offered to assist the landowners in preparing the Nutrient Management Plan in accordance with the FDACS Notice of Intent (NOI) requirements. The FDACS BMP Statewide Enrollment Map does not show equestrian/equine landowners that have not availed themselves to the FDACS BMP program.

Palm Beach County Waste Pilot Program

Historically, recycling waste such as horse manure into reusable product is considered an industrial activity which is not allowed in agricultural areas. However, as a result of discussions with the Wellington Commissioners and meetings with Palm Beach County staff on February 25, 2017, the County Commission adopted an amendment to the Unified Land Development Code to allow a Pilot Project for an equestrian waste recycling facility, limited to the Special Agriculture future land use in the Glades Tier, in order to allow this use closer to the equestrian hub in Wellington, Loxahatchee Groves, and the surrounding Palm Beach County Western Communities.

In March 2017, a recycling company submitted a request for Palm Beach County Zoning approval for an equine waste recycle facility to be located in the Glades, about halfway between Belle Glade and Wellington, inside the Everglades Agricultural Area. The proposed site would be self-contained and comply with all BMPs for equestrian waste. Initially, the County Commission was supportive; however, food safety concerns raised by adjacent vegetable farming operations resulted in the recycling company withdrawing the application. On November 30, 2017, the Palm Beach County Commission adopted an Ordinance (ORD 2017-42) to amend the Unified Land Development Code (Ordinance 2003-067), and enacting a one year moratorium on zoning approvals for equestrian waste management facilities, or any composting facility that includes equestrian waste, animal waste or biosolids, within the Glades Tier of unincorporated Palm Beach County, excluding accessory uses to a bona-fide agricultural operation. As of this reporting, Palm Beach County Planning and Zoning is re-writing the zoning approval process for equestrian waste management facilities, or any composting facility that includes equestrian waste, animal waste or bio-solids, to allowed within industrial zoned lands of Palm Beach County. This re-write, will in essence, limit the processing of livestock waste to the industrial lands located along the I-95 or Turnpike corridors.

In 2019 Horizon 880 LLC was awarded a lease by the Palm Beach County Solid Waste Authority to build a plant on SWA owned land to process the manure by recycling the shavings, separating the manure for garden products and turning it into a dust-free horse bedding that is repackaged and sold back to the horse owner, at a savings. The five-acre facility should be up and running sometime in November 2020. This West Palm Beach facility should be able to process up to 59,000 tons of material per year.



Wellington • 12300 Forest Hill Blvd • Wellington, FL 33414 • 561.791.4000 • www.wellingtonfl.gov

000000 WORK ORDER #	SHEET NO.	1
	DATE	12/27/2017
	DRAWN	Christian Nakotey
	SCALE	1 in = 1 mile
	REQUESTED	Susan Trzepacz
FILENAME	ExhibitsMap	



**Surface Water Sample Sites
Exhibit A
Village of Wellington**

- ▲ Everglades Stormwater Program (ESP) Sites
- ⬡ Basin B Bi-Weekly Sites

- Canals
- Municipal Boundary



Wellington GIS

EXHIBIT B
Sampling Event TP Values for all Wellington Sampling Locations
October 2018 - September 2019

	PS2	PS3	PS4	PS6	PS7	35	40	42	43	44	45	63	72	B1	B6	B9	B10	B13	B15	B24	B25	B26	B27	B28	B29	B30	B31	9-IN	S24-Out
10/10/2018	60	52	51	41	44	43	35	110	88	410	52	49	61	120	59	49	41	100	49	46	44	46	23	56	40	34	68	38	46
10/24/2018	68	53	46	28	32	42	35	35	62	27	27	71	86	60	57	92	79	56	24	20	21	22	15	66	28	45	41	350	50
11/7/2018	57	91	68	71	53	42	31	84	84	210	76	55	73	41	52	41	47	100	52	33	41	47	36	70	40	29	46	43	39
11/21/2018	79	98	94	52	52	30	32	59	64	93	55	62	50	42	62	36	35	71	51	22	38	230	18	50	38	29	46	39	40
12/5/2018	78	36	40	34	43	37	30	62	52	220	70	55	48	48	57	42	30	76	82	30	46	34	20	52	38	34	40	40	34
12/19/2018	78	35	39	24	29	38	25	50	41	100	62	47	39	34	80	39	30	77	82	30	65	41	30	42	40	46	34	34	38
1/2/2019	150	35	40	31	37	37	39	50	49	190	79	53	58	30	85	30	28	79	55	29	40	41	27	46	83	32	42	45	37
1/16/2019	42	42	29	30	29	43	32	49	49	57	47	35	41	37	45	39	30	66	66	34	43	26	27	43	36	46	34	36	35
1/29/2019		41	40	27	59	31	73	81	80	190	53			33															
1/30/2019	58	32	43	100	51	33	66	63	150	160	52	85	27	40	34	32	45	84	58	50	50	38	32	95	42	40	48	59	56
2/13/2019	71	37	36	33	45	41	27	49	49	160	51	120	29	26	70	45	32	67	63	27	39	19	24	35	44	44	76	30	47
2/27/2019	54	40	58	36	49	48	39	100	99	110	78	140	39	40	58	54	38	90	61	99	46	38	56	70	45	38	52	41	34
3/13/2019	56	39	44	46	35	42	39	66	71	160	58	110	52	36	44	45	76	96	55	130	38	40	120	49	41	42	42	37	43
3/27/2019	65	41	40	38	45	39	39	96	58	230	56	510	40	42	190	20	36	28	37	29	40	150	73	60	36	38	44	42	39
4/10/2019	56	53	52	30	46	50	34	86	92	350	69	94	54	49	87	56	42	32	36	56	44	53	31	65	47	37	44	40	43
4/24/2019	69	820	45	36	30	41	44	68	71	290	56	96	47	51	320	41	38	70	50	40	36	32	30	53	43	43	57	38	45
5/5/2019		100	80	26	16	51	45	79	89	230	58		42																
5/8/2019	48	59	44	38	47	55	35	71	110	260	49	220	42	48	61	52	34	110	35	54	50	31	42	77	46	61	86	40	64
5/22/2019	54	59	57	42	40	46	46	89	100	550	55	550	63	61	380	42	38	83	38	44	36	38	24	85	53	54	53	36	54
6/5/2019	48	51	38	50	33	42	39	75	75	110	51	160	48	66	65	81	41	68	28	90	35	43	31	76	45	46	41	39	41
6/11/2019		51	110	38	98	80	100	200	110	250	100		51																
6/19/2019	84	48	68	29	49	42	61	130	110	140	48	120	69	77	55	72	43	85	47	73	55	53	35	77	48	79	75	30	22
7/3/2019	73	42	81	32	44	36	52	170	120	100	65	230	59	75	56	56	42	90	38	74	63	44	33	86	55	110	86	48	32
7/17/2019	58	44	100	110	57	33	50	68	88	150	74	240	53	45	41	51	44	70	34	350	38	35	43	76	37	92	78	44	32
7/25/2019		33	40	30	34	28	33	50	48	600	52		49																
7/30/2019	37	23	45	38	31	25	35	60	76	350	92	42	44	31	26	47	33	56	37	96	27	31	26	64	29	58	46	42	24
8/14/2019	69	31	55	27	43	44	46	110	120	530	63	83	66	53	71	51	300	120	44	44	46	37	31	93	45	120	75	50	36
8/28/2019	63	35	49	32	43	29	46	99	150	170	68	57	150	74	39	93	38	94	41	270	44	43	28	82	48	45	60	54	28
9/11/2019	53	37	50	39	45	38	57	78	130	340	63	80	59	56	140	99	150	150	60	55	46	33	34	74	44	48	68	40	52
9/25/2019	60	28	35	40	28	30	39	56	68	290	63	50	71	39	52	45	30	86	52	30	35	31	19	56	31	47	47	30	46
Annual Geometric Mean	62.5	48.7	50.9	38.0	40.9	39.4	41.4	75.5	80.1	192.9	59.7	96.7	51.6	47.8	68.8	48.7	44.4	76.7	47.0	52.4	41.5	41.2	31.3	63.2	42.1	47.7	52.8	43.5	39.5

	≤ 50 ppb
	>50 ppb, <150 ppb
	>150 ppb

EXHIBIT C
Sampling Event TP Values for Wellington Discharge Locations

	Pump Station 3	Pump Station 4	Structure 35	Pump Station 6	Pump Station 7
10/10/2018	52	51	43	41	44
10/24/2018	53	46	42	28	32
11/7/2018	91	68	42	71	53
11/21/2018	98	94	30	52	52
12/5/2018	36	40	37	34	43
12/19/2018	35	39	38	24	29
1/2/2019	35	40	37	31	37
1/16/2019	42	29	43	30	29
1/29/2019	41	40	31	27	59
1/30/2019	32	43	33	100	51
2/13/2019	37	36	41	33	45
2/27/2019	40	58	48	36	49
3/13/2019	39	44	42	46	35
3/27/2019	41	40	39	38	45
4/10/2019	53	52	50	30	46
4/24/2019	820	45	41	36	30
5/5/2019	100	80	51	26	16
5/8/2019	59	44	55	38	47
5/22/2019	59	57	46	42	40
6/5/2019	51	38	42	50	33
6/11/2019	51	110	80	38	98
6/19/2019	48	68	42	29	49
7/3/2019	42	81	36	32	44
7/17/2019	44	100	33	110	57
7/25/2019	33	40	28	30	34
7/30/2019	23	45	25	38	31
8/14/2019	31	55	44	27	43
8/28/2019	35	49	29	32	43
9/11/2019	37	50	38	39	45
9/25/2019	28	35	30	40	28
Annual Geometric Mean	48.7	50.9	39.4	38.0	40.9

Target TP Goal for the Annual Geometric Mean is 50 ppb
All Sites Average of Geometric Mean = 43.6

	≤ 50 ppb
	>50 ppb, ≤ 150 ppb
	>150 ppb

